

Title (en)

Optical coupling structure, method of realizing such a structure and related positioning means.

Title (de)

Optische Kopplungsstruktur, Verfahren zur Realisierung einer derartigen Struktur und damit verbundene Positionierungsmittel.

Title (fr)

Structure de couplage optique, méthode de réalisation d'une telle structure et moyen de son positionnement.

Publication

EP 0683409 A1 19951122 (EN)

Application

EP 94201401 A 19940518

Priority

EP 94201401 A 19940518

Abstract (en)

The coupling structure is intended for coupling an optical termination (T1/T5) of an optical fiber conductor (F1/F5) to an optical terminal (T1'/T5') of an optical device which can be another optical fiber conductor. The structure includes a carrier (S, P) wherein the optical fiber conductor is so embedded that it has at least one locally bent portion reaching an outer surface of the carrier and forming there the optical termination. The carrier includes a first positioning means (P) to correctly position the optical termination with respect to the carrier and a second positioning means (L1-L3) able to cooperate with a third positioning means (s1, s2, s3) of an optical arrangement including the optical device to realize the coupling. The first positioning means (P) is constituted by a plate having a substantially V-shaped lateral cut-out portion wherein the optical termination (T1/T5) fits and the second and third positioning means are realized by upstanding tongue shaped elements and edges of cut-out parts of the carrier and of the optical arrangement. <IMAGE> <IMAGE>

IPC 1-7

G02B 6/38

IPC 8 full level

G02B 6/38 (2006.01)

CPC (source: EP US)

G02B 6/3839 (2013.01 - EP US); **G02B 6/3873** (2013.01 - EP US); **G02B 6/3885** (2013.01 - EP US)

Citation (search report)

- [A] WO 8500899 A1 19850228 - STIFTELSEN IND OG TEK FORSK [NO]
- [A] EP 0556937 A1 19930825 - SIEMENS AG [DE]
- [DA] EP 0530875 A1 19930310 - BELL TELEPHONE MFG [BE]
- [A] US 4863232 A 19890905 - KWA PETER T H [CA]

Cited by

US6952505B2; WO0181967A1; WO0181968A1; WO0151976A1

Designated contracting state (EPC)

AT BE DE ES FR GB IT NL SE

DOCDB simple family (publication)

EP 0683409 A1 19951122; **EP 0683409 B1 20020814**; AT E222374 T1 20020815; AU 2007295 A 19951123; AU 694197 B2 19980716; DE 69431180 D1 20020919; DE 69431180 T2 20030410; NZ 272085 A 19970224; US 5809197 A 19980915

DOCDB simple family (application)

EP 94201401 A 19940518; AT 94201401 T 19940518; AU 2007295 A 19950515; DE 69431180 T 19940518; NZ 27208595 A 19950508; US 44311595 A 19950517